MON170CL 17-inch Color LCD Flat Panel Display Monitor

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BOSCH
Invented for life

- Provides 500 TV lines of resolution
- Y/C (S-video), composite video and audio inputs
- Analog DVI-I/VGA input
- Space saving, compact design
- 50% less power consumption than conventional CRT monitors

The MON170CL is a high resolution, high performance liquid crystal display (LCD) video display monitor. Available in an ergonomic, aesthetically pleasing design, this state-of-the-art monitor includes a 43 cm (17 in.) color thin film transistor (TFT) active matrix 1280 x 1024 pixel LCD panel. Designed for the CCTV security marketplace, the MON170CL Monitor includes inputs for composite video, audio, and Y/C. Additionally, this model includes an analog DVI-I/VGA input to accommodate the increasing use of PCs and digital video devices in security applications. Adjustment of standard monitor display parameters is made user-friendly via on-screen menus (available in several languages), and front panel controls. Using long-life fluorescent backlights, the brightness level is maintained over time, because the LCD monitor design avoids the brightness degradation experienced with aging CRT-type monitors. It also provides a sharp display, free of the annoying flicker prevalent in CRT monitors, allowing longer use of your LCD monitor with little or no eyestrain. The versatile design allows it to automatically accept NTSC and PAL signal formats, and power supply voltages from 100 to 240 VAC.

Its compact styling, including an LCD panel depth of 48 mm (1.9 in.), makes the MON170CL the color monitor of choice for large screen, space limited applications. With its wide range viewing angle, 140° in the horizontal and 130° in the vertical direction, the unit can be properly viewed in a variety of positions.

Certifications and Approvals

Electromagnetic Compatibility (EMC)	Complies with FCC Part 15, ICES-003, and CE regulations
Product Safety	Complies with CE regulations, UL, CSA, EN, and IEC Standards

Technical Specifications

Electrical

Rated Voltage	120/230 VAC, 50/60 Hz
Voltage Range	100 to 240
Power at Rated Voltage	34 W

Sync Format	PAL/NTSC
LCD Panel	TFT LCD
Screen Size (H x V)	338.0 x 270.3 mm (13.3 x 10.6 in.)
Viewable Picture Area	43 cm (17 in.) measured diagonally
Pixel Pitch (H x V)	0.264 x 0.264 mm
Resolution	1280 x 1024 pixels, 500 TV lines, typical
Aspect Ratio	4:3 (composite video); 5:4 (DVI-I/VGA)
Display Colors	8 bits interface; 16 million colors
Response Time	8 ms
Backlight	Four (4) cold cathode fluorescent tubes, rated life 50,000 hours, at 50% brightness

Optical Characteristics	
Luminance	300 cd/m^2
Contrast Ratio	500:1
Viewing Angle	140° horizontal, 130° vertical

Video Input	
Composite Video (CVBS)	1.0 Vp-p (0.5–1.5 Vrms)
Y/C (S-video)	0.7 Vp-p (Y-signal), 0.3 Vp-p (C-signal), 75 Ohm termination

DVI-I/VGA Input		
Analog RGB	0.7 Vp-p (0.5–1 Vrms)	
DVI-I/VGA Timing Modes	Fh: 30 K–80 KHz	
	Fv: 60–75 Hz	
	640 x 480	60/72/75 Hz
	800 x 600	60/72/75 Hz
	1024 x 768	60/70/75 Hz
	1280 x 1024	60/75 Hz

Audio Input	Line input 1.0 Vp-p
Audio Output	Speaker: Two (2), 1 W

Controls

Front Panel	Push-buttons
I (Input)	Selects CVBS, S-Video, DVI-I/VGA Input
M (Menu)	Selects on-screen display (OSD)
-	Adjustment decrease
+	Adjustment increase
Power	On/Off

On-Screen Display	
Video Mode	Luminance, Color Temp., Input Select, OSD Setup, Language, Information, Reset, Exit
DVI-I/VGA Mode	Luminance, Image Setup, Image Position, Color Temp., Input Select, OSD Setup, Language, Information, Reset, Exit
OSD Setup	H & V Position, OSD Timeout

Indicators	
LED	Power On (green)
On-Screen	“Attention No Signal”

Connectors	
Composite Video In	One (1) RCA jack, BNC adapter included
Audio In	One (1) 1/8-in. 3-cond. mini phone jack
Y/C (S-video)	One (1) mini-DIN, 4-pin (in only)
DVI-I/VGA	One (1) 15-pin D-sub
Power Input	5.5 mm DC input jack
Power Adapter (Included)	Input: 100–240 VAC, 50/60 Hz, Output: 12 VDC, 4.2 A

Mechanical

Cabinet	Material: ABS94V0 plastic Finish: Charcoal
Dimensions	
LCD Panel with Base (W x D x H)	372 x 170 x 386 mm (14.6 x 6.7 x 15.2 in.)
LCD Panel Only (W x D x H)	372 x 48 x 320 mm (14.6 x 1.9 x 12.6 in.)
Weight	LCD Panel with Base: 3.8 kg (8.4 lb) LCD Panel Only: 2.9 kg (6.4 lb)

Environmental

Temperature	Operating: 0°C to 40°C (32°F to 104°F) Storage: –20°C to 60°C (–4°F to 140°F)
Humidity	95%, non-condensing at 40°C (104°F)

Ordering Information

MON170CL 17-inch Color LCD Flat Panel Display Monitor
43 cm (17 in.), PAL/NTSC, 500 TVL with audio, 1280 x 1024 resolution, CVBS, VGA, Y/C, S-video, 100/240 VAC, 50/60 Hz
Order number **MON170CL**

Order number **UMP-12V5B0-90**

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